MultiStage Dockerfile:

A Multi-stage Dockerfile is a Dockerfile that uses multiple stages to build a Docker image. Each stage represents a different phase of the build process and can be used to optimize the final image size and improve security by reducing the attack surface.

The idea behind a Multi-stage Dockerfile is to use intermediate images that are used only for building and compiling the application, and then copy the final artifacts into a minimal runtime image that is used for deployment. This approach can greatly reduce the size of the final image, as well as improve security by removing unnecessary build dependencies

Steps:

1. Create a Docker engine with EC2 instance (Check Doc: Setup of Docker)
2. Add Ubuntu to Docker group (Use same Document in step 1)
3. In GitBash: git clone –b docker <https://github.com/devopshydclub/vprofile-project.git>
4. ls
5. cd vprofile-project/
6. ls
7. cd Docker-files/
8. ls
9. cd app/
10. cat Dockerfile
11. mkdir multistage
12. cd multistage/
13. vim Dockerfile

FROM openjdk:8 AS BUILD\_IMAGE

RUN apt update && apt install maven -y

RUN git clone -b vp-docker https://github.com/imranvisualpath/vprofile-repo.git

RUN cd vprofile-repo && mvn install

FROM tomcat:8-jre11

RUN rm -rf /usr/local/tomcat/webapps/\*

COPY --from=BUILD\_IMAGE vprofile-repo/target/vprofile-v2.war /usr/local/tomcat/webapps/ROOT.war

EXPOSE 8080

CMD ["catalina.sh", "run"]

:wq

1. docker build –t appimg:V1 **.**
2. docker images